What is claimed is:

- 1. A system for permitting orderly shutdown of electronic components, the system comprising:
- 5 an enclosure:

one or more electronic components positioned within the enclosure;

- at least one fan positioned within the enclosure for generating an airflow across the one or more electronic components;
 - a heat exchanger for cooling the airflow; and
- a phase change material for absorbing heat from the airflow upon a failure associated with the heat exchanger.
 - 2. The system according to claim 1, wherein the phase change material has a phase change temperature that is above a temperature of the airflow when there is no failure associated with the heat exchanger, and below a maximum operating temperature of the one or more electronic components.
 - 3. The system according to claim 1, wherein the heat exchanger is a fluid to air heat exchanger.

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- 4. The system according to claim 3, wherein the fluid to air heat exchanger is coupled to a fluidic circuit.
- 5. The system according to claim 4, wherein the fluidic circuit circulates one of a refrigerant and water.
 - 6. The system according to claim 1, wherein the heat exchanger is a thermoelectric device.
- 7. The system according to claim 1, wherein the phase change material is enclosed in a heat conductive container.
 - 8. The system according to claim 7, wherein the container includes fins.

- 9. The system according to claim 1, wherein the phase change material is in microencapsulated form that is embedded in a coating applied to one or more surfaces within the enclosure.
- 10. The system according to claim 1, wherein one or more surfaces within the enclosure is coated with the phase change material, the phase change material encapsulated by a sealing coat.
 - 11. The system according to claim 1, further comprising:

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- a temperature sensor for sensing temperature within the enclosure; and
- a high-temperature indication indicative of a high temperature within the enclosure, the high temperature being lower than a phase change temperature of the phase change material.
- 12. The system according to claim 1, wherein the phase change material is a material chosen from the group of materials consisting of a paraffin, a hydrated salt, a metal, an alloy, and an organic acid.
- 13. The system according to claim 1, wherein the at least one fan substantially recirculates air within the enclosure.
 - 14. The system according to claim 1, wherein the one or more electronic components includes at least one blade server.
- 15. A method for cooling one or more electronic components positioned in an enclosure, the method comprising;
 - providing an air cooling element within the enclosure;
 - generating an airflow across the cooling element and one or more electronic components positioned within the enclosure; and
 - cooling the airflow using a phase change material upon a failure in the cooling element, the phase change material positioned within the enclosure.
 - 16. The method according to claim 15, wherein providing the air cooling element includes:

moving fluid through a fluidic circuit, the fluidic circuit including a fluid to air heat exchanger.

- 17. The method according to claim 16, further comprising pumping one of a water and a refrigerant through the fluidic circuit.
 - 18. The method according to claim 15, wherein the air cooling element is a thermoelectric device.
- 19. The method according to claim 15, further comprising providing an indication indicative of a high temperature condition within the enclosure.
 - 20. The method according to claim 15, further including shutting down the one or more electronic components upon a failure in the fluidic circuit.
 - 21. The method according to claim 15, wherein the phase change material has a melting point that is above a temperature of the airflow when there is no failure in the air cooling element, and below a maximum operating temperature of the one or more components.
- 22. The method according to claim 15, further comprising enclosing the phase change material in a container.
 - 23. The method according to claim 15, further comprising encapsulating the phase change material in a surface positioned within the airflow.
 - 24. The method according to claim 15, further comprising: applying the phase change material to a surface positioned within the airflow, and applying a sealing coat on top of the phase change material.
- 30 25. The method according to claim 15, wherein the one or more electronic components includes at least one blade server.
 - 26. A cooling system comprising: an enclosure;

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one or more electronic components positioned in the enclosure; means for generating an airflow across the one or more electronic components; cooling means for cooling the airflow; and

- a phase change material positioned in the airflow, the phase change material for absorbing heat from the airflow upon a failure in the cooling means.
 - 27. The cooling system according to claim 26, wherein the means for generating the airflow includes a fan.
- 10 28. The cooling system according to claim 26, wherein the cooling means includes a fluid to air heat exchanger.
 - 29. The cooling system according to claim 28, wherein the fluid to air heat exchanger is coupled to a fluidic circuit that circulates one of a refrigerant and a water.
 - 30. The cooling system according to claim 26, wherein the cooling means includes a thermoelectric device.
- 31. The cooling system according to claim 26, wherein the phase change material is enclosed in a container.

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- 32. The cooling system according to claim 31, wherein the container includes fins for dissipating heat.
- 33. The cooling system according to claim 26, wherein the phase change material is encapsulated in a surface positioned within the airflow.
 - 34. The cooling system according to claim 26, wherein one or more surfaces within the enclosure is coated with the phase change material, the phase change material encapsulated by a sealing coat.
 - 35. The cooling system according to claim 26, wherein the phase change material is a material chosen from the group of materials consisting of a paraffin, a hydrated salt, a metal, an alloy, and an organic acid.

36. The method according to claim 26, wherein the one or more electronic components includes at least one blade server.